

Table 10. Nature and Extent of Soil to be Remediated, Park Soil Pre-Design Sampling, Northrop Grumman Systems Corporation, Operable Unit 3 (Former Grumman Settling Ponds), Bethpage, New York.

Area	Parameter	Remedial Depth Interval (ft bls)	Remedial Action Objectives (mg/kg) ⁽²⁾		Nature and Extent of Soils to be Remediated ⁽²⁾	Impacted ⁽³⁾ Volumes (cy)
Ball Field - PCB Removal Area ⁽¹⁾	PCBs	0-2	1		• There are three, depth-specific RAOs for PCBs in the ball field • The areal extents of PCB impacts that exceed the 0-2, 2-10, and >10 foot remedial depth interval RAOs are shown on Figures 5A and 5B.	3,500
		2-10	10			10,100
		10-25	50			4,200
	Chromium Sludge	0-25	Remove chromium sludge co-located with PCB-impacted soil to extent necessary to achieve PCB RAOs		• Discrete pockets co-mingled with PCB-impacted Park Soils.	... ⁽⁴⁾
	Metals ⁽⁵⁾	0-10	Chromium	180	• The areal extents of metal impacts that exceed the 0-2 and 2-10 foot remedial depth interval RAOs are shown on Figures 7A and 7B.	... ⁽⁴⁾
			Cadmium	4.3		
			Arsenic	16		
Ball Field - Outside of PCB Removal Area	Metals ⁽⁵⁾	0-2	Chromium	180	• The areal extents of metal impacts that exceed RAOs are shown on Figures 7A and 7B.	300
			Cadmium	4.3		
			Arsenic	16		
Access Road	PCBs	0-2	1		• There are two, depth-specific RAOs for PCBs in the Access Road. • The areal extents of PCB impacts that exceed the 0-2 and 2-10 ft remedial depth interval RAOs are shown on Figure 5A and 5B.	3,300
		2-10	10			500
	Chromium	0-2	180		• The areal extents of chromium impacts that exceed RAOs are shown on Figures 7A and 7B.	300
Eastern Portion of Park	PCBs, Metals ⁽⁵⁾	0-2	PCB	1	• The areal extent of PCBs and metals impacts that exceed RAOs are shown on Figures 5B and 7B, respectively..	2,000
			Chromium	180		
			Cadmium	4.3		
			Arsenic	16		
Combined Total						24,200

Notes:

- (1) PCB Removal Area – area within the ball field (defined laterally & vertically) where soil will be remediated to achieve the following PCB RAOs: greater than 1 mg/kg from 0 to 2 feet, greater than 10 mg/kg from 2 to 10 feet, and greater than 50 mg/kg from 10 to 25 feet.
- (2) Clean Up Criteria and RAOs provided in the NYSDEC-issued OU3 ROD dated March, 2013.
- (3) Volumes of impacted soils were estimated for the sub-areas from EVS modelling conducted by ARCADIS. Volumes are rounded up to the next hundred cubic yards.
- (4) These volumes are included in the PCB impacted volumes.
- (5) Metals include cadmium, chromium and arsenic.

Acronyms:

- cy cubic yards
- ft bls feet below land surface
- metals Includes one or more of the following: arsenic, cadmium, and chromium
- mg/kg milligrams per kilogram
- NYSDEC New York State Department of Environmental Conservation
- OU3 Operable Unit 3
- PCBs polychlorinated biphenyls
- RAOs Remedial Action Objectives
- ROD Record of Decision